DryFiciency at a glance

13 partners

6 million € EU funding

start in September 2016

3 demo-sites
Drying: 10 – 25% of industrial energy consumption

- Heat input: 100%
- Ambient losses: 5%
- Heat remained in product: 15%
- Unused surplus heat (incl. evap. water): 80%
<table>
<thead>
<tr>
<th>Consortium</th>
<th>Closed Loop Heat Pumps</th>
<th>Open Loop Heat Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 RTOs</td>
<td>3 compressor manufacturers (2 SME)</td>
<td>Rotrex</td>
</tr>
<tr>
<td>Bitzer</td>
<td>1 refrigerant manufacturer</td>
<td>Chemours</td>
</tr>
<tr>
<td>HEATEN</td>
<td>1 lubricant manufacturer</td>
<td>Fuchs</td>
</tr>
<tr>
<td>1 plant engineer/ system expert (1 SME)</td>
<td>3 end-users</td>
<td>Scanship</td>
</tr>
<tr>
<td>Gran Stärke</td>
<td>2 experts on dissemination &amp; exploitation (1 SME)</td>
<td></td>
</tr>
</tbody>
</table>
Industrial demonstration

High temperature heat pumps up to 160ºC

Closed loop heat pump
- Brick drying
  - Wienerberger AG
    - Uttendorf (AT)
- Starch drying
  - AGRANA Stärke GmbH
    - Pischelsdorf (AT)

Open loop heat pump
- Bio sludge drying
  - Scanship A/S
    - Drammen (NO)